Lucie Hern

# ACAMEM

Newsletter

DEDICATED

TO SCIENTIFIC

RESEARCH AND

EDUCATION,

INSPIRING

THE NATURAL

RESPECT FOR

WORLD





Test yourself on your natural history knowledge – Biodiversity

Resource Center

Learn about form and function, geographical differences, and potential uses of 1.6 million dried plant specimens – Botany

See live insects and the diversity of color and pattern among insects – Entomology

The Academy is in the news! See T.V. and news clippings – Public Information

See critters without backbones (who are not insects) and different types of fossils, from bones to footprints –

Invertebrate Zoology

and Geology



See a demonstration of the skill needed to prepare a reptile specimen for the collection – Herpetology

Touch a variety of marine mammal bones – Ornithology and Mammalogy

## THE ACADEMY RINGS IN SPRING WITH MEMBERS OPEN HOUSE

Wednesday, May 10 & 6 p.m. to 9 p.m.

ome discover the ultimate science adventure! When you go behind the scenes at the Academy, prepare to be amazed at every turn as you take this intimate journey through the world of science. It's your chance to meet the scientists and staff, view collections in our eight research departments and ask questions. It's our way of saying "thank you" to our members for your interest and support.

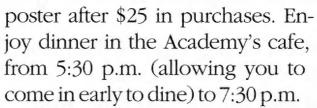


Start off the evening with the new exhibit of all that glitters: the Buccellati collection of gemstones and gold in the recently refurbished Gem and Mineral Hall. Also lighting up the main floor, Science In Action and the "Kids from CAOS" with a special earth celebration puppet

show at 6:30 p.m. You won't want to miss Academy photographers Susan Middleton and David Liittschwager who will be on hand from 6:30 p.m. to 8:30 p.m. in the "Witness" exhibit to talk with you and sign their book. This exhibit of distinctive and powerful portraits of threatened plants and animals closes May 14.

Come and enjoy the high-spirited Barbary Coast Cloggers in the auditorium at 7:30 p.m. Clogging was developed hundreds of years ago as a dance of immigrants in the Eastern United States. Clogging has remarkably diverse origins — from Native American, African as well as

European dance traditions.
The Academy Store will
be open for your shopping convenience, offering a free "Witness"



Three self-guided tours, upstairs, downstairs and the invertebrate zoology and geology wing (entering through Gem & Mineral Hall), will take you backstage through our research departments.

On your downstairs trek, check in at the education department to talk with staff and pick up information on what to do with the kids this summer, either through Camp Academy or Junior Academy classes. Also experience two delightful adult and family education demonstrations: Kathleen Hubbard will show you how to plait basketry materials into wonderful baskets, while Susan Tibbon will create elaborately painted spice boxes made out of citrus skins.

The staff has planned an exciting evening for you, so we hope you'll join us. Open house is an exclusive benefit for members only. This is the perfect time to invite your friends to become members and show them around.

bership, which offers year-round benefits and helps support education and research at the Academy (see order form



Photos: Dong Lin

#### See the Night Sky Indoors

**Current Sky Shows**: Experience realistic simulations of the night sky and celestial events with the following sky shows. Tickets can be purchased a half hour before the show at the box office once inside the Academy. For sky watching information and detailed descriptions of shows, call the planetarium at 750-7141.

May	Schedule
-	

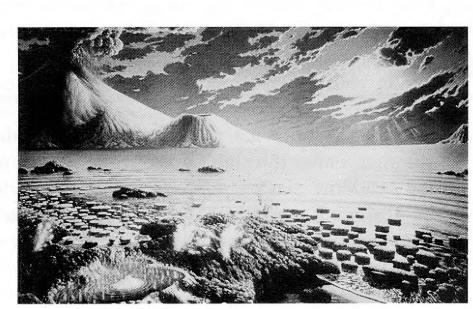
Sky Show / Description	weekday	weekend
Realm of the Galaxies / their secrets	2 p.m.	2 & 4 p.m.
Extremes / cosmic record holders	<u> </u>	1 & 3 p.m.
StarTalk / tour of the night sky		noon
Touch the Stars / a family show	_	11 a.m.

For more information, please call 750-7141.

#### The Origins of Life

**B. Dean Lecture**: What planetary environments are necessary for the evolution of life? Various prebiotic models of early Earth suggest that life-supporting conditions may have existed as early as 4.4 billion years ago. But was early organic matter able to survive heavy bombardment of material left over from the formation of the solar system? Did such impacts actually aid the development of life by synthesizing compounds?

Dr. Sherwood Chang, chief of the planetary biology branch of NASA-Ames Research Center, studies the origin and distribution of organic matter and life in the universe. He is a noted authority on the synthesis of organic matter on prebiotic Earth.



ARTIST'S RENDITION OF EARTH'S EARLIEST ECOSYSTEM 3.5 BILLION YEARS AGO.

Tue., May 23 — 7:30 p.m. Tickets, \$2 each

© For advance tickets, use order form. Tickets may be available on a standby basis. Please call 750-7141, for more information. © This lecture concludes the Spring '95 Benjamin Dean Lecture Series. The fall series will be held September through December.

#### **School Shows Provide Heavenly Knowledge**

The Academy's Planetarium is doing its part to create the next generation of star gazers by providing special sky shows for school children.

The Planetarium puts on up to two shows each weekday morning during the academic year, in addition to the regular 2 p.m. public show. Three different sky shows cater to different grade levels. Cartoon characters such as Mr. Sun and Mr. Owl explain the sky's bright objects to preschoolers and kindergartners; older students play detective and follow the popular computer game character Carmen Sandiego, gathering clues to stop her intergalactic capers.

#### **Appalachian Puppetry**

Using wooden hand and rod puppets carved in the backwoods of Southwest Virginia, the Poor Puppet Theatre Company performs the mountain tale of "Wicked John," a feisty character whose legendary meanness gets him into heaps of trouble.

Sat., May 6 — 1 p.m. to 2 p.m. (Auditorium)

#### Maidu Indian Basket

Denise Davis demonstrate coiling techniques of Maid basket-weaving skills she from family members and to while growing up in North nia. The baskets are made materials (bark, roots, grass symbolic designs.

Sat., May 13 — 1 p.m. to 2 p (Auditorium)

## FOOD FOR THOUGHT

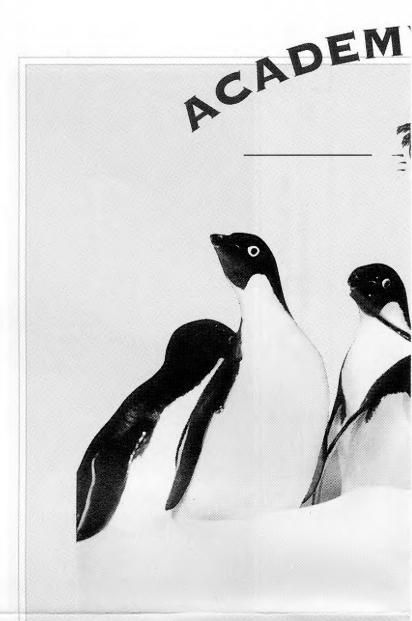


Examine the future of that most immediate and intimate of human needs — food.
Tomorrow's Table, a

lively half-day symposium on Saturday, June 10, from 1 p.m. to 5 p.m., will provide food for thought about our own view of food and nutrition, and about critical economic and cultural issues involved in local and future global food production.

The afternoon will include three presentations spanning perspectives from the personal to the global. Beginning with a discussion of topics related to health, nutrition and personal decision making, we will move on to an examination of issues related to future agricultural production in California. The program will conclude with a vivid account of the complex interactions of the cultural, environmental and technological issues involved with the production of food worldwide.

Tomorrow's Table is sponsored by the Academy's anthropology department and the Rietz Food Technology Foundation. Ticket prices are \$20 for members and \$22 for nonmembers, and are available by mail order only. For more information, please call 750-7163.



Bill Diebenow

#### Antarctic and the

Explore this last frontier and one in the world with John and Pam nent and its satellite islands aborguins returning to ancient breed trels rearing their chicks on cliffs and whales and seals feasting on 170-passenger *M.S. Hanseatic* of cious outside staterooms with vishowers, a fleet of 14 Zodiacs, 180 degree panoramic view.

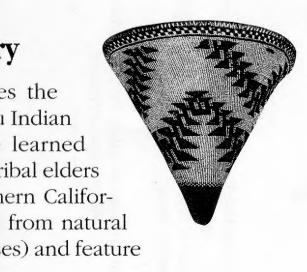
Jan. 22–Feb. 6 Cost: \$6,850–\$12,750 per person (in



Panama Canal aboard the *M.V.* explore the San Blas Islands a boats and dugout canoes.

Dec. 19–31 Cost: from \$3,560 (double occupa

For more information and detailed itin please call the trave



#### French Songs

Guitarist Simon Dray, who comes from the Bordeaux region of France, plays a medley of French songs, including a selection of his own original compositions as well as pieces by Jacques Brel.

*Sat., May 20 — 1 p.m. to 2 p.m.* (Auditorium)

Explore cultural traditions from around the world. Free after general admission. Call 750-7164 for information.



#### **Falkland Islands**

of the few truly pristine regions McCosker. This awesome continuously with life — millions of penng colonies, albatrosses and peblooming with brilliant lichens, krill. The recently built five-star, fers luxuriously appointed, spaews and full-size bathtubs and an observation lounge with

luding air/land/sea from Miami)

### Holiday Cruise to Costa Rica

This exploratory journey, with guide Tom Daniel, will take you to the luxuriant rain forests, deterted beaches and windswept volcanic summits of Costa Rican national parks and to the humannade phenomenon of the Yorktown Clipper. You also will ad the Sambu River in Zodiac

ncy), plus airfare

eraries on these and other 1995 tours, office at 750-7348.

#### **Elizabeth Marshall Thomas At Herbst Theatre**

Animal behavior expert and anthropologist Elizabeth Marshall Thomas has traveled the world doing extensive fieldwork in her efforts to understand different species and cultures. She has applied her anthropological experience to the study of dogs and cats to produce two enormously popular books: The Hidden Life of Dogs and The Tribe of Tiger. Thomas is currently a research associate in animal behavior at the Laboratory of Ornithology at Cornell University.

She will be presented in conversation with Dr. Philip Zimbardo Thursday, May 18 at 8 p.m. in the Herbst Theatre (401 S. Van Ness Ave.). Tickets are \$12 members and \$15 nonmembers. To order tickets, please call City Box Office at 392-4400.

This concludes the California Academy of Sciences' Conversations & Readings at the Herbst Theatre lecture series for 1995.

YOUNG AUDIENCES



#### Lily Cai — Chinese Dance

Families will delight in experiencing the exquisite dancing of Lily Cai, a principal dancer with the Chinese Opera House for eight years. Cai explains and performs numerous Chinese folk and classical dances complete with beautiful costumes and props. She is the recipient of several choreography grants, has performed for the Ethnic Dance Festival and the International Dance Festival, and recently collaborated with Dimensions Dance Theatre (African-jazz dance) to create a new dance form.

This family series is presented in the auditorium and is free after general

Sun., May 28 — 1 p.m.

admission. Call 863-1719, for more information.

### Curators' Reception a R"EEL" Hit With Donors



John
McCosker,
chair of
aquatic
biology,
captivates
Acad-

emy donors with a display illustrating the diversity of eels at the annual Curators' Reception. The evening, centered around the theme "Diversity Is the Spice of Life," featured a fascinating array of specimens and artifacts from Academy collections, slides of research expeditions from around the world, scientific publications and the latest in research data bases. The Curators' Reception is a special benefit for members of the Academy's curators', director's and president's giving circles. Come join us! For information about becoming a donor circle member and participating in next year's Curators' Reception, please call Sally Donnell in the development office at 750-7280.

#### ADULT & FAMILY EDUCATION AF

#### **Colored Pastels and Natural Elements**

Explore the exciting and popular media of colored pastels as you create colorful landscape images with instructor Vesta Kirby. We'll explore a variety of techniques including layering color and experiment with textured paper. A combination of indoor technique sessions with outdoor fieldwork will be used. Appropriate for beginning and experienced artists.

May 6 & 7—10 a.m. to 4 p.m. Cost: \$85 members/\$95 nonmembers (does not include materials)

#### **Audubon Canyon Ranch and Point Reyes National Seashore**

Guide Dan Murphy will lead a bus tour through a number of bird habitats from the urban corridor of San Francisco and east Marin, through the agricultural and park lands of the west Marin hills. You'll explore the Douglas fir forest, eucalyptus woodlands and open fields for various resident land birds at Point Reyes National Seashore Headquarters. At nearby Five-Brooks Pond we'll see land birds in the willows and water birds. At Bolinas Lagoon and Audubon Canyon Ranch, after a leisurely lunch, we'll take a hike to see nesting great egrets and great blue herons. You also will have free time to explore.

May 13 — 8:30 a.m. to 4:30 p.m. Cost: \$40 members/\$50 nonmembers (includes transportation and soft drinks)

#### In Search of Ancient Astronomies

Taught in Morrison Planetarium, instructor Mike Bennett will introduce you to the amazing world of archaeoastronomy. Archaeologists and astronomers are uncovering more and more evidence that ancient peoples developed a very sophisticated knowledge of the heavens, and used that knowledge to develop accurate calendars, foretell the seasons, and even predict eclipses with 100 percent accuracy.

*May 3–31 (4 Wed.) — 7 p.m. to 9 p.m. Cost: \$60 members/\$70 nonmembers* 

For more information, contact the adult and family education program at 750-7100.

Non-Profit Organization U.S. Postage Paid Permit No. 7544 San Francisco O American Express **O\$30 Senior/Student** Total Total Credit card charges gladly accepted over \$10. TOTAL \$ TOTAL \$ 63 × \$22 Oty/Nonmem. **ACADEMY CONVERSATIONS & READINGS AT THE HERBST THEATRE** To order tickets for Elizabeth Marshall Thomas, May 18, please call Phone: **O\$35** Dual Senior × \$2 ○ MasterCard Quantity RIETZ FOOD TECHNOLOGY FOUNDATION SYMPOSIUN x \$20 I would like to support the Academy with a donation. Oty/Mem. O \$40 Individual PLANETARIUM'S B. DEAN LECTURE SERIES O VISA I wish to give a gift membership to:

City Box Office at 392-4400.

Tomorrow's Table / Jun 10

GIFT MEMBERSHIP

of Sciences California Academy

THE

ACADEMY

STORE

California Academy of Sciences

San Francisco, CA 94118

Address Correction Requested

Planetarium. Open every day Day we're open until 7 p.m. The Academy includes the Natural History Museum,

Origins of Life / May 23

Steinhart Aquarium and Morrison

from 10 a.m. to 5 p.m. July 4-Labor

# VISITOR SERVICES

Academy Information: 415-750-7145 Development Office: 750-7216 Biodiversity Center: 750-7361 Membership Office: 750-7111 Group Information: 750-7043 Education Office: 750-7100 Planned Giving: 750-7216 Academy Store: 750-7410 Docent Tours: 750-7155 Switchboard: 221-5100 Admissions: 750-7159 Job Hotline: 750-7333 Planetarium: 750-7141 Aquarium: 750-7247 Laserium: 750-7138 Lectures: 750-7128 Security: 750-7000 Library: 750-7102

Address:

State:

**O\$50 Family/Grandparent** 

DONATIONS

**TOTAL PAYMENT ENCLOSED** 

Check

(Check one)

Weekend Information: 750-7375

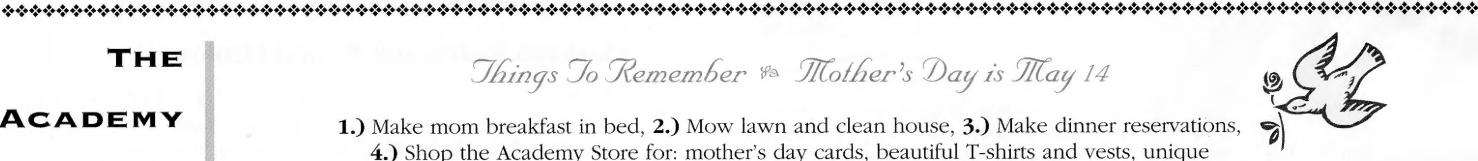
Volunteer Services: 750-7154

Travel: 750-7348

**PAYMENT METHOD** 

Things To Remember & Mother's Day is May 14 1.) Make mom breakfast in bed, 2.) Mow lawn and clean house, 3.) Make dinner reservations, 4.) Shop the Academy Store for: mother's day cards, beautiful T-shirts and vests, unique

hand-crafted jewelry, and rain forest bath products



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654

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Membership Office, Ticket Services

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The Academy Newsletter is published

monthly for Academy members.

MAY

#### **SATURDAY FRIDAY WEDNESDAY SUNDAY MONDAY THURSDAY TUESDAY** Astronomy Day, 10 a.m. "Buccellati: Artistry Free Day SPECIAL EXHIBITS in Gemstones & to 5 p.m. indoors/ First Wednesday of **PLANETARIUM** Gold" exhibit 7 p.m. to 10 p.m. out-"Buccellati: Artistry in Gemstones & Gold," opens May 4 each month **SKY SHOWS** doors (Planetarium) "Witness: Endangered Species of North America," through May 14 opens on weekdays "Birds of a Feather," extended showing Appalachian Puppetry, at 2 p.m. "Hands On Science," extended showing 1 p.m. (Traditional Arts) Members Open Maidu Indian House, 6 p.m. to **LASERIUM** Basketry, 1 p.m. 9 p.m. (Member's (Traditional **SHOWS MEMBERS** event) Arts) SCIENCE IN Thursday-Sunday, please bring your **ACTION** membership card evenings, call 750-7138 when you visit the General programs Academy Sun.-Fri. at 11 a.m. French Songs, 1 16 'Witness: Endan-Elizabeth Marshall Children's **PENGUIN** p.m. (Traditional Thomas, 8 p.m. gered Species of programs Sat. at North America" **FEEDINGS** (Conversations at Arts) 12:30 & 3 p.m.; exhibit closes the Herbst are at 11:30 a.m. this month's topic Theatre) and 4 p.m. is a celebration of every day Islands. **PLANETARIUM FISH** Origins of Life, **SKY SHOWS** 7:30 p.m. **ROUNDABOUT** on weekends (Planetarium closed for repairs at 11 a.m., Lecture) until summer 1995 and at noon, 1, 2, DOLPHIN 3 and 4 p.m. **FEEDINGS** PERMANENT EXHIBITS are at 10:30 a.m., The Touch Tidepool is temporarily closed due to Roundabout renovation. 28 Lily Cai — Chinese Dance, 1 p.m. **30** and 12:30, 2:30 A special portable tidepool with user-friendly animals, video and microscope and 4:30 p.m. will be open daily from 11 a.m. to 2 p.m. (to 3 p.m., weekends). (Young Audiences) every day

#### JUNE DATES TO REMEMBER

Jun. 10 - Tomorrow's Table, 1 p.m. to 5 p.m. (Rietz Food Technology Symposium) Jun. 10 - Festival of Fragrance Day Jun. 12–15 - Planetarium closed for sky show change

#### **UPCOMING MEMBERS MEETINGS**

Jun. 14 - Gems & Jewels, with Larry French ("Buccellati" exhibit). Jul. 12 - Dancing to the Fossil Record, with Ray Troll & Brad Matsen Aug. 9 - Coral Reefs of the Western Pacific, with Gary Williams of IZ&G